> ABOUT ME

I am a passionate biotechnologist with expertise in molecular biology and genetics. I am particularly fascinated by the applications of CRISPR-Cas technology, which allows for precise genome editing to serve human needs. My goal is to leverage these advanced tools to develop sustainable and environmentally friendly solutions.

> CONTACT INFO

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Greece

> Hobbies

> Languages, Certifications

TOEFL
Introduction to Bioconductor , Harvard
Bioinformatic analysis of NGS, NKUA
Introduction to SPSS, Hellenic Open University
Medicine through the microscope, KNUA
Basics of Crisper CAS9, Jackson Laboratory

Eleni Dermitzaki

Doctor of philosophy candidate

Eleni Dermitzaki | LinkedIn

> EDUCATION

- **08/2025 – Ongoing**
  PhD in Chemical Engineering, Texas A&M University, US
- **10/2023 – 10/2024**
  M.Sc in Human Genetics and Genetic Counseling, Department of Medicine, University of Thessaly
- **11/2020 – 10/2023**
  M.Sc in Bioinformatics and Computational Biology, Department of Biology, National and Kapodistrian University of Athens
- **09/2014 – 11/2020**
  M.Sci in Biotechnology, Agricultural University of Athens

> EXPERIENCE

- **05/2024 - 10/2025**
  Internship in Molecular Cytogenetics Lab, GR
- **08/2021 – 09/2023**
  Internship in Biomedical Research Foundation of Academy of Athens, GR
- **06/2022 – 08/2022**
  Internship in Bioiatriki, GR
- **07/2018 – 08/2018 & 03/2019 – 06/2019**
  Internship in Biomedical Sciences Research Center "Alexander Fleming", GR

> Professional Skills

Laboratory Techniques (in vivo, in vitro): ***PCR. qPCR, µCT, H&E, Carmine staining, DNA/RNA isolation, mice operation, cell culture, microscopy (flurorescence, TEM), exosome isolation, treatment cells, Western blotting***
Data Analysis (in silico): ***BLAST, Bioconductor, RStudio, SPSS, microarrays experimental analysis FDR correction, Limma, Meta-analysis, enrichment analysis***
Experimental design: ***from hypothesis development to data interpretation***

> Research Interests

Sustainability and Circular Economy
Genome Editing and Engineering
CRISPR-Cas Technologies
Metabolic engineering and synthetic biology
Large-Scale Bioprocess Optimization